

**Los Medanos College**  
**Program Review Data for**  
**Nursing - LVN**

Prepared by the Office of Institutional Research

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Background

This report provides the department with three-year trends on indicators on the following areas:

- Enrollment
- Productivity
- Student Success

For Vocational Education programs, data on VTEA core indicators are provided.

I. Enrollment: This section provides a three-year trend on student enrollment by headcount as of first census. Because our demographic make up is rapidly changing, figures by ethnicity are also provided.

II. Productivity: In this section, three-year trends are provided for: FTEF/FTES, FTES, Part-time FTEF, full-time FTEF, and full-time Staff. For most measures, college figures are provided for comparison purposes.

III. Student Success. This section consists of: Retention Rates, Success rates, number of students with declared major who completed 18 units or more, and number of degrees and certificates awarded. In this section, statistics by ethnicity are also provided.

**Note: ALL DATA is for the academic year (Fall and Spring only).**

Definitions for each measure are provided in the footnotes.

Data Sources: The two main sources of information are: 1. DataTel and the Research Data Warehouse. Productivity figures were provided by the Business Office.

## STATISTICS

**HEADCOUNT ENROLLMENT (Unduplicated at Census):** Student headcount in Nursing (LVN) decreased from 93 in 2002-2003 to 71 in 2004-2005, a decrease of 22 students. When examining student enrollment by ethnicity, it is observed that the proportion of Asians increased by 6%, of Filipinos by 7% and of Whites by 17% in the last three years. African-Americans decreased by 21%, Hispanics by 3% and Pacific Islanders by 2% in the last three years.

The ethnic composition of students in the program has not reflected the composition of the college in the last three years. Under representation of Hispanics and Whites and over representation of Filipinos is observed.

### Headcount Enrollment: Nursing - LVN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>N=93</b>	N=12946	<b>N=42</b>	N=11527	<b>N=71</b>	N=12808	<b>-22</b>	-138
							<b>-24%</b>	<b>-1%</b>
<b>Asian</b>	<b>6%</b>	5%	<b>17%</b>	6%	<b>12%</b>	6%	<b>6%</b>	1%
<b>African American (non-Hispanic)</b>	<b>36%</b>	13%	<b>21%</b>	13%	<b>15%</b>	14%	<b>-21%</b>	1%
<b>Filipino</b>	<b>12%</b>	6%	<b>12%</b>	6%	<b>19%</b>	6%	<b>7%</b>	0%
<b>Hispanic</b>	<b>14%</b>	21%	<b>10%</b>	23%	<b>11%</b>	24%	<b>-3%</b>	3%
<b>American Indian/Alaskan Native</b>	<b>1%</b>	1%	<b>0%</b>	1%	<b>0%</b>	1%	<b>-1%</b>	0%
<b>Other Non-White</b>	<b>5%</b>	3%	<b>2%</b>	3%	<b>1%</b>	2%	<b>-4%</b>	-1%
<b>Pacific Islander</b>	<b>3%</b>	1%	<b>2%</b>	1%	<b>1%</b>	1%	<b>-2%</b>	0%
<b>White non-Hispanic</b>	<b>20%</b>	44%	<b>26%</b>	43%	<b>37%</b>	43%	<b>17%</b>	-1%
<b>Unknown</b>	<b>6%</b>	7%	<b>10%</b>	5%	<b>3%</b>	3%	<b>-3%</b>	-4%
<b>All Students</b>	<b>100%</b>	100%	<b>100%</b>	100%	<b>100%</b>	100%	<b>-</b>	<b>-</b>

NOTE: Percentages may not add up to 100% due to rounding.

**SEATCOUNT ENROLLMENT (Duplicated at Census):** Seatcount enrollment in Nursing LVN decreased from 224 in 2002-2003 to 203 in 2004-2005, a decrease of 21 seats for the last three years. When examined by ethnicity, seatcount enrollment increased for Asians by 5%, for Filipinos by 11% for Pacific Islanders by 1% and for Whites by 15%. African-Americans decreased by 8% and Hispanics by 14%.

### Seatcount Enrollment: Nursing - LVN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	N=224	N=43127	N=156	N=40792	N=203	N=42549	-21	-578
							-9%	-1%
<b>Asian</b>	<b>6%</b>	5%	<b>15%</b>	6%	<b>11%</b>	6%	<b>5%</b>	1%
<b>African American (non-Hispanic)</b>	<b>26%</b>	14%	<b>19%</b>	14%	<b>18%</b>	15%	<b>-8%</b>	1%
<b>Filipino</b>	<b>10%</b>	6%	<b>14%</b>	6%	<b>21%</b>	6%	<b>11%</b>	0%
<b>Hispanic</b>	<b>21%</b>	20%	<b>6%</b>	22%	<b>7%</b>	24%	<b>-14%</b>	4%
<b>American Indian/Alaskan Native</b>	<b>0%</b>	1%	<b>0%</b>	1%	<b>0%</b>	1%	<b>0%</b>	0%
<b>Other Non-White</b>	<b>5%</b>	3%	<b>1%</b>	3%	<b>1%</b>	3%	<b>-4%</b>	0%
<b>Pacific Islander</b>	<b>0%</b>	1%	<b>4%</b>	1%	<b>1%</b>	1%	<b>1%</b>	0%
<b>White non-Hispanic</b>	<b>26%</b>	43%	<b>31%</b>	43%	<b>41%</b>	43%	<b>15%</b>	0%
<b>Unknown</b>	<b>5%</b>	7%	<b>11%</b>	5%	<b>3%</b>	2%	<b>-2%</b>	-5%
<b>All Students</b>	<b>100%</b>	100%	<b>100%</b>	100%	<b>100%</b>	100%	<b>-</b>	<b>-</b>

NOTE: Percentages may not add up to 100% due to rounding.

**PRODUCTIVITY:** Productivity (FTES/FTEF) for LMC's Nursing (LVN) program has fluctuated from 9.5 in 2002-2003, to 11.4 in 2003-2004, and 8.6 in 2004-2005. The productivity figures for LMC's Nursing (LVN) program is lower than the corresponding figures for Contra Costa College (CCC) – no data was available for DVC.

FTEF decreased from 2.66 in 2002-2003 to 2.49 in 2004-2005, a decrease of .17. FTEF Classified staff has remained at .50 for the last three years.

### FTES/FTEF: Nursing - LVN

	2002-2003	2003-2004	2004-2005	Change
<b>LMC Program</b>	9.5	11.4	8.6	-.9
<b>CCC*</b>	14.7	17.7	16.5	+1.8
<b>DVC*</b>	n/a	n/a	n/a	
<b>State Average</b>				

Productivity (FTES/FTEF) is defined as the average number of FTES earned per full-time equivalent instructor. FTES is defined as 525 student contact hours, based on a 15 hour weekly course load for 2 semester at 17.5 weeks per semester (15x2x17.5=525).

\*Data obtained from COGNOS.

### FTEF: Nursing - LVN

	2002-2003	2003-2004	2004-2005	Change
<b>FTEF</b>	2.66	2.31	2.49	-.17
<b>Classified FTEF</b>	.50	.50	.50	

**RETENTION RATES:** Although the retention rate for students in the Nursing (LVN) program has decreased from 95% in 2002-2003 to 85% in 2004-2005, a 6% decrease, it has been higher than the college average, except in 2003-2004. That year is was the same as the college average (82%).

When examining retention rates by ethnicity for the last three years, it is observed that the retention rate for Hispanics increased by 3%. The retention rates for Filipinos decreased by 18% and for Whites by 8%.

### Retention Rates: Nursing - LVN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>297</b>	<b>47,311</b>	<b>156</b>	<b>41,959</b>	<b>213</b>	<b>42,937</b>	<b>-84</b>	<b>-4,374</b>
<b>Asian</b>	<b>100%</b>	84%	<b>87%</b>	84%	<b>100%</b>	87%	<b>0%</b>	3%
<b>African American (non-Hispanic)</b>	<b>94%</b>	73%	<b>70%</b>	73%	<b>94%</b>	72%	<b>0%</b>	-1%
<b>Filipino</b>	<b>91%</b>	84%	<b>86%</b>	84%	<b>73%</b>	82%	<b>-18%</b>	-2%
<b>Hispanic</b>	<b>97%</b>	82%	<b>67%</b>	81%	<b>100%</b>	82%	<b>3%</b>	0%
<b>American Indian/Alaskan Native</b>	<b>100%</b>	80%	-	84%	-	81%	-	1%
<b>Other Non-White</b>	<b>100%</b>	81%	<b>100%</b>	80%	<b>100%</b>	79%	<b>0%</b>	-2%
<b>Pacific Islander</b>	-	81%	<b>50%</b>	82%	<b>100%</b>	80%	-	-1%
<b>White Non-Hispanic</b>	<b>98%</b>	84%	<b>92%</b>	85%	<b>90%</b>	84%	<b>-8%</b>	0%
<b>Unknown</b>	<b>55%</b>	84%	<b>82%</b>	81%	<b>100%</b>	83%	<b>45%</b>	-1%
<b>All LMC Students</b>	<b>95%</b>	82%	<b>82%</b>	82%	<b>89%</b>	82%	<b>-6%</b>	0%
<b>State Average</b>		83%		83%		83%		0%

**DEFINITION:** Student is retained in the course to end of term. A, B, C, D, F, CR, NC, I grade notations.

**MEASUREMENT:** Percent of students retained in courses out of total enrolled in courses. The retention rate is calculated by dividing the numerator (number of students with A, B, C, D, F, CR, NC, I) by the denominator (number of students with A, B, C, D, F, CR, NC, W, I).

**SUCCESS RATES:** Overall success rate for students in the Nursing (LVN) program has decreased from 89% in 2002-2003 to 83% in 2004-2005, a decrease of 6%. The success rate of the Nursing (LVN) program has been consistently higher by more than 10% than the college average for the last three years. In 2004-2005, the program's success rate was 83% compared to 67% of the college average.

When examining success rates by ethnicity for the last three years, it is observed that the success rate for African-Americans decreased by 3% for Filipinos by 14%, for Hispanics by 8% and for Whites by 10%.

### Success Rates: Nursing - LVN

	2002-2003		2003-2004		2004-2005		3-Year Change	
	Program	College	Program	College	Program	College	Program	College
	<b>297</b>	<b>47,311</b>	<b>156</b>	<b>41,959</b>	<b>213</b>	<b>42,937</b>	<b>-84</b>	<b>-4,374</b>
<b>Asian</b>	<b>100%</b>	71%	<b>78%</b>	72%	<b>100%</b>	74%	<b>0%</b>	3%
<b>African American (non-Hispanic)</b>	<b>86%</b>	51%	<b>67%</b>	51%	<b>83%</b>	50%	<b>-3%</b>	-1%
<b>Filipino</b>	<b>87%</b>	70%	<b>86%</b>	71%	<b>73%</b>	70%	<b>-14%</b>	0%
<b>Hispanic</b>	<b>94%</b>	65%	<b>67%</b>	66%	<b>86%</b>	66%	<b>-8%</b>	1%
<b>American Indian/Alaskan Native</b>	<b>0%</b>	69%	-	70%	-	64%	-	-5%
<b>Other Non-White</b>	<b>50%</b>	61%	<b>100%</b>	65%	<b>100%</b>	65%	<b>50%</b>	4%
<b>Pacific Islander</b>	-	63%	<b>50%</b>	61%	<b>100%</b>	61%	-	-2%
<b>White Non-Hispanic</b>	<b>96%</b>	72%	<b>90%</b>	74%	<b>86%</b>	72%	<b>-10%</b>	0%
<b>Unknown</b>	<b>55%</b>	69%	<b>77%</b>	66%	<b>20%</b>	67%	<b>-35%</b>	-2%
<b>All Students</b>	<b>89%</b>	67%	<b>79%</b>	68%	<b>83%</b>	67%	<b>-6%</b>	0%
<b>State Average</b>		67%		67%		67%		0%

**DEFINITION:** Student succeeds in the course to end of term. A, B, C, CR grade notations.

**MEASUREMENT:** Percent of students successful in courses out of total enrolled in courses. The success rate is calculated by dividing the numerator (number of students with A, B, C, CR) by the denominator (number of students with A, B, C, D, F, CR, NC, W, I).

**NUMBER OF STUDENTS WITH DELCARED MAJOR WHO COMPLETED 18 UNTS OR MORE:**

The number of students with Nursing (LVN) as their major and with 18 units or more increased from 3 in 2002-2003 to 5 in 2004-2005, an increase of 2 students in the last three years.

**Number of Students with Declared Major who Completed 18 Units or More:  
Nursing - LVN**

	2002-2003	2003-2004	2004-2005	3-Year Change
	N=3	N=8	N=5	+2
Asian	33%	25%	40%	7%
African American (non-Hispanic)	0%	0%	20%	20%
Filipino	0%	25%	20%	20%
Hispanic	67%	0%	0%	-67%
American Indian/Alaskan Native	0%	0%	0%	0%
Other Non-White	0%	0%	0%	0%
Pacific Islander	0%	0%	0%	0%
White Non-Hispanic	0%	25%	20%	20%
Unknown	0%	25%	0%	0%
<b>All Students</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>-</b>

NOTE: Percentages may not add up to 100% due to rounding.

**NUMBER OF DEGREES AND CERTIFICATES:** Twenty Associate degrees and 40 Certificates have been awarded in Nursing (LVN) in the last three years.

**Number of Degrees and Certificates: Nursing - LVN**

	2002-2003	2003-2004	2004-2005	3-Year Change
Degrees	11	0	9	-2
Certificates	24	0	16	-8

## VTEA Core Indicators for: Nursing - LVN

CORE INDICATORS	2003-2004		2004-2005		2005-2006	
	College	Percentage above or below State Level	College	Percentage above or below State Level	College	Percentage above or below State Level
Core 1. <b>Achievement</b>	92.31	13.55	83.95	4.19	93.10	13.34
Core 2. <b>Completions</b>	80.00	N/A	90.00	29.18	92.00	31.18
Core 3a. <b>Employment</b>	100.00	N/A	90.00	6.81	96.00	12.81
Core 3b. <b>Employment Retention</b>	100.00	N/A	100.00	17.15	95.83	12.98
Core 4a <b>Nontraditional Participation</b>	11.54	-17.44	9.64	-20.34	12.50	-17.48
Core 4b. <b>Nontraditional completion</b>	00.0	N/A	5.56	-19.49	13.04	-12.01

Data obtained from Chancellor's Office VTEA Reports.

### DEFINITIONS

**Indicator One: Skill Attainment** – GPA of at least 2.0 on Forms and Grade C & Above on all other reports. Indicator *One* uses enrollments in Apprenticeship, Advanced Occupational or Clearly Occupational courses (coded with SAM Priority codes A-C). Students may be enrolled in more than one program area and may be included in more than one population grouping.

**Indicator Two: Completions** – Certificates, Degrees and Transfers

Indicator *Two* measures completions for vocational student "Leavers and Completers." Receipt of a certificate or degree or enrollment in a California four year public University with or without a degree is considered a completion. Military enrollment was not available for this cohort and was removed from all cohorts on three year presentations for the 2003-04 reports.

**Indicator Three: Placement and Retention**

Indicator *Three* measures *Placement* as UI covered employment or continuation at CSU/UC and *Retention* as three consecutive quarters in UI covered employment for vocational student "Leavers and Completers" in their first year after college. Students found continuing at UC or CSU are considered placed but are removed prior to calculations for retention. Retention is based solely on UI Employed Leavers and Completers.

Military enrollment and federal government employment, although available in previous years, were not available for this cohort. Placement status using military and federal employment was removed from all cohorts on three year presentations for the 2005-06 reports.

**Indicator Four: Equity - Training Leading to Nontraditional Employment**

Indicator *Four*, Participation, measures the participation of students in 2002-03 vocational courses (SAM code A –D) leading to employment where either gender is less than 25% of those employed using 1990 Census data.

Indicator *Four*, Completion, measures Completion of vocational student "Leavers and Completers" in training leading to employment where either gender is less than 25% of those employed using 1990 Census data.